NORTH PACIFIC OCEAN, JUNE 1935

By WILLIS E. HURD

Atmospheric pressure.—Pressures close to the normal occurred throughout the North Pacific Ocean and its boundaries during June 1935. The greatest departure from the normal for the month was −0.08, at Juneau. The Aleutian LOW consisted of a shallow atmospheric trough extending from Kodiak along the Aleutian Islands to the already well developed continental LOW along the Asiatic coast. The North Pacific anticyclone extended on the average from the Washington coast southwestward and thence westward along middle latitudes well into east longitudes. The highest and lowest average pressures at island and coast stations for the month were 30.08, at Midway Island, and 29.70, at Hong Kong. The lowest pressure reading reported from a ship at sea was 29.06 inches, read on the British S. S. *Ahamo* on the 26th, near 47° N., 167° W.

TABLE 1.—*Averages, departures, and extremes of atmospheric pressure at sea level, North Pacific Ocean, June 1935, at selected stations*

Stations	Average pressure	Departure from normal	Highest	Date	Lowest	Date
	Inches	*Inch*	*Inches*		*Inches*	
Point Barrow	30.03	+0.04	30.36	7	29.66	27
Dutch Harbor	29.85	−.05	30.50	3	29.32	14
St. Paul	29.90	+.04	30.38	3	29.36	22
Kodiak	29.89	−.02	30.40	5	29.56	25
Juneau	29.93	−.08	30.40	5	29.54	28
Tatoosh Island	30.05	+.03	30.41	2	29.67	6
San Francisco	29.92	−.04	30.07	9	29.74	30
Mazatlan	29.86	+.03	29.94	6, 25	29.76	11
Honolulu	30.03	−.01	30.14	15	29.90	18
Midway Island	30.08	+.03	30.18	3, 4	29.92	8
Guam	29.83	−.04	29.88	12	29.76	6, 29
Manila	29.79	+.04	29.86	5	29.72	28
Hong Kong	29.70		29.80	9	29.50	15
Naha	29.79	+.04	29.90	4	29.62	2
Chichishima	29.92	+.01	30.08	26	29.70	11
Nemuro	29.79		30.10	26	29.44	17

NOTE.—Data based on 1 daily observation only, except those for Juneau, Tatoosh Island, San Francisco, and Honolulu, which are based on 2 observations. Departures are computed from best available normals related to time of observation.

Cyclones and gales.—Numerous cyclones of mostly moderate depth entered the Aleutian region, some from Asia, some from the western oceanic area, and one from the middle eastern Pacific. These depressions combined to form the Aleutian cyclone, which persisted over a fluctuating region in higher latitudes during the greater part of the month after the 6th.

No cyclone of especial consequence occurred, and reports of gales were correspondingly few. East of Japan, depressions which caused winds of gale force were somewhat active on the 4th, 5th, and 18th, with the highest force, 9, from the southeast, on the 4th, near 36° N., 143° E.

From the 3d to 6th a depression lay in middle latitudes to the north-northeast of the Hawaiian Islands. While it caused scattered velocities of force 7 during the period the highest wind accompanying its slow northward movement was a north gale of force 9 near 46° N., 149° W., on the 3d.

During the 19th to 21st scattered winds of force 7 were experienced south of the western Aleutians. The highest velocity experienced in this locality was of force 8, on the 19th.

To the southward of the eastern Aleutians and the Gulf of Alaska some storminess was met with on the 26th–28th, during the passage of the deepest LOW of the month. A considerable area to the northward of the 45th parallel, 150° to 170° W., was affected by the disturbance on the 26th, with the severest gale of the month, force 10, reported by the Danish motorship *Peter Maersk*, near 46° N., 166° W., on that date.

Fog.—Along and in the vicinity of the entire Great Circle route between San Francisco and Yokohama, fog occurred on from 2 to 7 or more well distributed days in June, with the region of greatest frequency extending from northern midocean westward and southwestward to northern Honshu. Fog formed on about 12 days off the California coast, and on 4 days off the coast of Lower California.

SEA-SURFACE TEMPERATURE SUMMARY FOR THE SOUTHWESTERN GULF OF MEXICO

By GILES SLOCUM

The monthly mean sea-surface temperatures for a representative area in the southwestern Gulf of Mexico are given in the accompanying table. The period covered is from January 1912 to December 1933, inclusive. There are 17 months, as noted in the table, for which no observational data are available. There were few observations during the years 1914 to 1919, inclusive, insufficient for any but the roughest averages to be computed. The temperatures for this period are therefore given to whole degrees. The mean temperatures for the later years, beginning with 1920, are given to tenths of a degree.

The area in which these temperature observations were taken embraces sixteen 1° squares, namely, from 90° W. to 94° W., and from 21° N. to 25° N.

Monthly and annual sea-surface temperatures in the southwestern Gulf of Mexico, 1912 to 1933, inclusive

Year [1]	Total number of observations for the year	January	February	March	April	May	June	July	August	September	October	November	December	Annual
1912	192	74.8	72.4	74.5	77.0	80.2	80.7	82.7	82.7	84.1	81.3	78.4	74.9	78.6
1913	227	73.8	74.9	73.8	75.3	76.4	78.3	81.1	82.4	82.6	80.5	78.0	74.4	77.6
1914	94	73	74	73	75	78	80	84	86	86	82	80	76	78.9
1915	44	74	74	73	75	79	82	86	85	84	79	(3)	76	78.7
1916	26	77	75	70	80	78	82	84	84	(3)	80	79	76	[4]79.1
1917	34	76	76	71	77	76	79	80	(3)	(3)	80	(3)	75	[4]77.7
1918	5	74	(3)	(3)	(3)	(3)	(3)	(3)	80	(3)	(3)	74	(3)	[4]75.6
1919	38	(3)	70	77	77	(3)	80	83	84	82	81	80	(3)	[4]78.6
1920	138	74.3	74.2	73.5	75.1	78.0	81.6	82.8	83.3	83.9	80.5	77.9	74.9	78.3
1921	273	73.6	73.7	74.6	75.9	77.8	81.1	83.2	82.4	82.8	80.8	79.0	78.0	78.6
1922	331	76.3	75.5	76.7	76.9	79.5	81.6	82.8	83.8	83.3	81.4	79.5	78.5	79.7
1923	237	76.1	75.1	75.2	76.6	79.0	81.6	82.7	84.6	83.8	82.1	77.2	76.7	79.2
1924	223	74.8	71.9	73.5	75.9	80.4	82.4	84.2	85.1	84.5	81.7	79.0	76.2	79 1
1925	219	75.1	75.1	76.4	77.3	78.8	80.2	82.6	83.2	83.7	82.5	80.3	75.5	79.2
1926	209	73.0	73.8	74.8	77.2	78.9	81.3	83.2	84.6	83.8	83.1	78.4	76.3	79.0
1927	211	74.9	74.4	74.7	76.8	80.1	82.2	84.2	84.6	84.2	82.1	79.2	76.1	79.5
1928	163	73.7	73.3	72.6	74.0	76.1	80.7	81.6	83.9	83.8	82.1	78.9	76.4	78.1
1929	146	73.1	72.6	74.7	76.8	78.8	80.5	80.4	82.7	82.2	81.2	78.3	75.7	78.1
1930	187	74.1	71.7	73.5	74.7	78.6	81.0	82.4	84.1	82.6	81.7	78.4	76.1	78.2
1931	150	75.2	72.5	71.3	72.3	76.5	81.8	83.2	83.5	83.1	82.3	79.2	78.2	78.3
1932	116	77.1	76.5	73.6	77.0	78.8	80.7	81.6	82.5	83.2	81.2	76.5	74.2	78.6
1933	193	76.6	76.3	75.2	77.1	78.9	79.8	81.6	82.4	81.6	80.2	79.8	76.2	78.8
Number of years' record		21	21	21	21	20	21	21	21	19	21	21	20	22
Mean (1912–33)[2]		74.8	73.9	73.9	76.2	78.4	80.9	82.7	83.5	83.4	81.3	78.5	76.1	[4]78.5

[1] Values for 1914 to 1919, inclusive, are given to whole degrees, instead of to tenths because of paucity of data.
[2] Computed with monthly values figured to 1 decimal place, and, therefore, not exact means of the figures given here.
[3] No data.
[4] Interpolated values are used for missing months.